DRAFT

NAVY TRAINING SYSTEM PLAN

FOR THE

A/S 32M-14 and A/S 32M-17

AIRCRAFT MAINTENANCE CRANES

N88-NTSP-A-50-8410B/D

JUNE 1999

EXECUTIVE SUMMARY

The A/S 32M-14 and A/S 32M-17 Aircraft Maintenance Cranes, developed by Pettibone Corporation and Entwistle Company, are used to support maintenance performed on various Navy and Marine Corps aircraft. The A/S 32M-14 reached Initial Operating Capability (IOC) in January 1990. The A/S 32M-17 reached IOC in July 1993. The A/S 32M-14 and A/S 32M-17 are currently in Phase III - Production, Deployment, and Operational Support of the Weapons System Acquisition Process. The A/S 32M-14 and the A/S 32M-17 are self-propelled, 14.5 ton transportable cranes with an 8.5 ton lift capacity. Both cranes are used by the Navy and Marine Corps to provide access to aircraft components for the performance of maintenance functions, either by lifting components for removal and replacement, or by lifting personnel to an advantage point for maintenance and inspection purposes.

Local Aircraft Intermediate Maintenance Departments and Marine Aviation Logistics Squadrons provide A/S 32M-14 and A/S 32M-17 organizational level maintenance and operator training. The A/S 32M-14 and A/S 32M-17 organizational level maintenance is performed by Navy and Marine Corps aviation maintenance personnel from various ratings who have attended the Aircraft Maintenance Crane Operator courses (C-600-3211 and C-600-3332) and who possess a valid Support Equipment Operators License. Depot level maintenance is performed at Naval Aviation Depots (NAVAVNDEPOT) Naval Air Station (NAS) North Island and NAVAVNDEPOT Marine Corps Air Station Cherry Point.

Intermediate level maintenance is performed by Aviation Support Equipment Technicians (AS) with Navy Enlisted Classification (NEC) 7616 and Marine Corps Ground Support Equipment Mechanics with Military Occupational Specialty (MOS) 6072. Formal intermediate level maintenance follow-on training for the A/S 32M-14, course C-602-3267, is provided to Navy personnel at Maintenance Training Unit (MTU) 3033, Naval Aviation Maintenance Training Group Detachment (NAMTRAGRU DET) NAS North Island, California, and MTU 3032, NAMTRAGRU DET NAS Jacksonville, Florida. Follow-on training for the A/S 32M-17, course C-602-3287, is currently provided to Navy personnel at these same activities. Production units of the crane are used as technical training equipment.

Marine Corps intermediate level personnel with MOS 6072 receive on-the-job training on both the A/S 32M-14 and A/S 32M-17; i.e., no formal training is required.

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LIST OF ACRONYMS

AIMD	Aircraft Intermediate Maintenance Department
AMIST	Aviation Maintenance In-Service Training
AMTCS	Aviation Maintenance Training Continuum System
AS	Aviation Support Equipment Technician
CBT	Computer-Based Training
CM	Corrective Maintenance
FY	Fiscal Year
ILSP	Integrated Logistics Support Plan
IOC	Initial Operating Capability
MAG	Marine Aircraft Group
MALS	Marine Aviation Logistics Squadron
MATMEP	Maintenance Training Management and Evaluation Program
MCAS	Marine Corps Air Station
MOS	Military Occupational Specialty
MTIP	Maintenance Training Improvement Program
MTU	Maintenance Training Unit
NA	Not Applicable
NATEC	Naval Air Technical and Engineering Service Command
NAF	Naval Air Facility
NAMTRAGRU	Naval Aviation Maintenance Training Group
NAMTRAGRU DET	Naval Aviation Maintenance Training Group Detachment
NAS	Naval Air Station
NAVAVNDEPOT	Naval Aviation Depot
NAWCAD	Naval Air Warfare Center Aircraft Division
NEC	Navy Enlisted Classification
NTSP	Navy Training System Plan
OPEVAL	Operational Evaluation
OPNAVINST	Office of the Chief of Naval Operations Instruction
OPO	OPNAV Principal Official
PICA	Primary Inventory Control Activity
PM	Preventive Maintenance
SE	Support Equipment

LIST OF ACRONYMS

SETD	Systems Engineering Test Directorate
TD	Training Device
TECHEVAL	Technical Evaluation
TFMMS	Total Force Manpower Management System
TTE	Technical Training Equipment
ULSS	User Logistic Support Summary

PREFACE

This Draft Navy Training System Plan (NTSP) for the A/S 32M-14 and A/S 32M-17 Aircraft Maintenance Cranes updates the Preliminary Draft NTSP, A-50-8410B/D, dated February 1999. This version of the Draft NTSP was updated to incorporate comments received from the Program Office. Specifically, incorporation of the approved follow-on training for the A/S 32M-17, course C-602-3287, and updates to the Points of Contact list.

PART I - TECHNICAL PROGRAM DATA

A. NOMENCLATURE-TITLE-PROGRAM

1. Nomenclature-Title-Acronym. A/S 32M-14 and A/S 32M-17 Aircraft Maintenance Cranes

2. Program Element. 24161N

B. SECURITY CLASSIFICATION

1. System Characteristics ..... Unclassified
2. Capabilities ..... Unclassified
3. Functions..... Unclassified

C. MANPOWER, PERSONNEL, AND TRAINING PRINCIPALS

OPNAV Principal Official (OPO) Program Sponsor..... CNO (N881B)

OPO Resource Sponsor ..... CNO (N881B)

Marine Corps Program Sponsor..... CMC (ASM-1)

Developing Agency ..... NAVAIRSYSCOM (PMA260)

Training Agency ..... CINCLANTFLT
CINCPACFLT
CNET
COMNAVAIRESFOR

Training Support Agency..... NAVAIRSYSCOM (PMA205)
COMNAVAIRESFOR

Manpower and Personnel Mission Sponsor..... CNO (N12)
NAVPERSCOM (NPC-4, NPC-404)

Director of Naval Training ..... CNO (N7)

Commander, Reserve Program Manager..... COMNAVAIRESFOR (N4333)

Marine Corps Combat Development Command
Manpower Management ..... TFS Division

D. SYSTEM DESCRIPTION

1. Operational Uses. The A/S 32M-14 and A/S 32M-17 Aircraft Maintenance Cranes, hereafter referred to as the A/S 32M-14 and A/S 32M-17 cranes, are used ashore to provide lifting support to perform maintenance on the CH-46D/E, CH-53D/E, RH-53D, MH-53E, AV-8B, KC-130F, and P-3B/C aircraft. The primary mission of the A/S 32M-14 and A/S 32M-17 cranes is to provide the lifting force required to remove and replace aircraft components. Special missions include support of the quick transmission assembly change for the CH-53E helicopter and disassembly of the RH-53D minesweeping helicopter for transportation in C-5 aircraft.

The A/S 32M-14 and A/S 32M-17 cranes have the capability of using an aerial fiberglass bucket for supporting two aviation maintenance personnel while performing maintenance actions. Additionally, the A/S 32M-14 and A/S 32M-17 cranes can be used as utility vehicles to reposition equipment as required and to lift components to and from shipping containers and vehicles.

2. Foreign Military Sales. Not Applicable (NA)

E. DEVELOPMENTAL TEST AND OPERATIONAL TEST

1. A/S 32M-14 Crane. Technical Evaluation (TECHEVAL) was conducted from February 1981 to March 1982 at the Naval Air Warfare Center Aircraft Division (NAWCAD) Patuxent River, Maryland, by the Systems Engineering Test Directorate (SETD). The configuration baseline of the A/S 32M-14 crane was established after resolving minor design deficiencies cited during the TECHEVAL. No Operational Evaluation (OPEVAL) was required.

2. A/S 32M-17 Crane. TECHEVAL was conducted in August 1992 by the SETD at NAWCAD Patuxent River. The configuration baseline of the A/S 32M-17 crane was established after resolving minor design deficiencies cited during the TECHEVAL. No OPEVAL was required.

F. AIRCRAFT AND/OR EQUIPMENT/SYSTEM/SUBSYSTEM REPLACED. NA

G. DESCRIPTION OF NEW DEVELOPMENT

1. Functional Description. The A/S 32M-14 and A/S 32M-17 cranes are self-contained units capable of lifting 17,000 pounds at a working radius of 10 feet, and 3,300 pounds with the boom fully extended to a working radius of 39 feet. Telescoping, elevating, and swinging the boom, as well as operation of the winch, are accomplished through the use of hydraulics. A computerized overload warning system warns the operator of craning conditions that approach safety limits. Independently controlled and hydraulically operated outriggers provide stabilization. The A/S 32M-14 and A/S 32M-17 cranes are divided into seven major assemblies or subassemblies, as follows:

a. Carrier Assembly. The carrier assembly supports the engine, transmission, drive axles, and wheel assemblies. It consists of a fabricated steel frame incorporating axle housings, mounts, wheel assemblies, a boom support swing-circle base, a rear-end hook, and outrigger assemblies.

b. Crane Assembly. The crane assembly provides the crane's lifting action. The crane assembly consists of a fully revolving base with pedestal-type boom support, a sectional extendible boom, wire rope drum, wire rope, hook block, sheaves, rope guards, bucket, and operating controls.

c. Hydraulic System. The hydraulic system provides the pressure necessary for the crane to achieve the lifting capability of 8-1/2 tons. The hydraulic system includes pumps, hydraulic rams, strainers, reservoir, pressure relief valves, hose assemblies, lockouts, restrictors, and control valves to ensure positive control of the boom hoist and rope hoist in all operations including loss of hydraulic power.

d. Brake Systems. The brake system consists of a mechanical parking brake which provides a locking device to the transmission output shaft to achieve two wheel emergency braking operation, and hydraulically operated conventional drum type service brakes at all four wheels for normal braking operation.

e. Propulsion System. Power to operate the crane and vehicle is supplied by the conventional drive train and a four-cylinder internal combustion diesel engine as described in the following:

(1) A/S 32M-14 Crane. The A/S 32M-14 crane uses a conventional drive train consisting of a six speed Clarke automatic transmission, driven by a torque converter and a four-cylinder internal combustion Detroit diesel engine.

(2) A/S 32M-17 Crane. The A/S 32M-17 crane uses a conventional drive train consisting of a three speed Clarke automatic transmission, driven by a torque converter and a four-cylinder internal combustion Cummins diesel engine.

f. Control and Electrical System. Electrical and craning control power is provided by a conventional electrical system. The electrical circuit provides power for starting, lighting, instrumentation, and electro-hydraulics. The control and electrical system includes engine and transmission temperature and pressure sensors, wiring harness, instrument panel gages, intercom system and controls, and switches which monitor the starting and operation of the unit.

g. Steering System. Steering capability is accomplished at all four wheels by two independent steering systems. The front wheel steering is provided by a conventional steering wheel. An angle sensor mounted on the front wheels provides the rear wheel steering. Rear steering is used primarily to maneuver the crane in close, where minimum clearance is allowed.

The steering system includes the operator's steering wheel assembly and engine driven power steering pump.

2. Physical Description. Physical descriptions of the A/S 32M-14 and A/S 32M-17 cranes are the same for each and have the following dimensions:

Weight……	29,000	pounds (maximum)
Width…….	96	inches (maximum)
Length (boom fully retracted)……	27	feet (maximum)
Length (boom fully extended)……	48.5	feet
Height (boom in travel position)…	132	inches (maximum)
Ground Clearance……..	13.5	inches

3. New Development Introduction

a. A/S 32M-14 Crane. The A/S 32M-14 crane was introduced to the fleet as a new production item. Delivery was completed in July 1983.

b. A/S 32M-17 Crane. The A/S 32M-17 crane was designed to augment the existing A/S 32M-14 crane and delivery to the Navy inventory was completed in August 1993.

4. Significant Interfaces. NA

5. New Features, Configurations, or Material. NA

H. CONCEPTS

1. Operational Concept. The A/S 32M-14 and A/S 32M-17 cranes are operated, ashore only, by a minimum of two licensed active duty or reserve Navy or Marine Corps aviation maintenance personnel to provide support for aircraft maintenance. Licenses are obtained by attending an operator's course at the local Aircraft Intermediate Maintenance Department (AIMD) or Marine Aviation Logistics Squadron (MALS). The primary operator is positioned in the cab and performs the maneuvering and craning operations. The second person acts as the director and safety observer, providing the necessary hand signals.

2. Maintenance Concept. A/S 32M-14 and A/S 32M-17 crane maintenance is performed per Office of the Chief of Naval Operations Instruction (OPNAVINST) 4790.2G, Naval Aviation Maintenance Program, which is based upon three levels of maintenance: organizational, intermediate, and depot.

a. Organizational. Aviation maintenance ratings of operating units perform organizational level maintenance on a day to day basis in support of their own mission.

(1) Preventive Maintenance. Licensed personnel in various aviation maintenance ratings perform Preventive Maintenance (PM) that is confined to pre-operational and post-operational inspections, daily inspections, and limited servicing per the Maintenance Requirement Cards.

(2) Corrective Maintenance. Organizational level Corrective Maintenance (CM) is not authorized.

b. Intermediate. Navy AS personnel with Navy Enlisted Classification (NEC) 7616 at AIMDs and Marine Corps personnel with Military Occupational Specialty (MOS) 6072 in the MALS Support Equipment (SE) Division are responsible for maintenance performed in the day to day support of the A/S 32M-14 and A/S 32M-17 cranes.

(1) Preventive Maintenance. PM includes pre-operational inspections, periodic inspections, cleaning, and servicing.

(2) Corrective Maintenance. CM includes fault isolation, testing, adjustments, repair, removal, and replacement actions per Maintenance Instructional Manuals. Both the A/S 32M-14 and A/S 32M-17 cranes are under the Support Equipment Quick Engine Change Program. If the engine requires replacement, the engine and transmission are removed and replaced as one assembly with all external components remaining in place. If a transmission requires replacement, the transmission may be removed and replaced in lieu of a complete assembly change. Maintenance on the starter motor is limited to inspection, removal, and replacement of brushes and solenoid. Maintenance on the alternator is limited to inspection, removal, and replacement of brushes, diode pack, and regulator. The AIMD or MALS personnel perform alignment and adjustment of the computerized overload warning system.

c. Depot. Depot level maintenance of the A/S 32M-14 and A/S 32M-17 cranes is performed at Naval Aviation Depots (NAVAVNDEPOTs) NAS North Island, California, and Marine Corps Air Station (MCAS) Cherry Point, North Carolina. Depot level maintenance consists of maintenance beyond the capability of intermediate maintenance activities. PM and CM actions include rework, overhaul, and repair of all major components, complete unit rebuilding, and equipment refurbishing. When the determination is made that an engine or transmission is beyond the capability of intermediate maintenance, both the engine and transmission will be removed as a quick engine change assembly and sent to the cognizant support equipment commercial engine rework facility.

d. Interim Maintenance. NA

e. Life-Cycle Maintenance Plan. Depot level maintenance includes a five-year cyclic rework, repair, or overhaul of all major components on the A/S 32M-14 and A/S 32M-17 cranes.

3. Manning Concept. The A/S 32M-14 and A/S 32M-17 cranes are operated by licensed active duty or reserve personnel in all Navy aviation ratings and all Marine Corps aviation

MOSs. Navy AS personnel with NEC 7616 and Marine Corps personnel with MOS 6072 perform intermediate level maintenance.

4. Training Concept. Operator and organizational level maintenance training courses (C-600-3211 and C-600-3332) for the A/S 32M-14 and A/S 32M-17 cranes are provided to all aviation maintenance ratings at local AIMDs and MALS. Intermediate level maintenance training for Navy personnel is provided through training track D/E-602-7065. Upon completion of training track D/E-602-7065, Navy personnel receive NEC 7616. MTU 3032, NAMTRAGRU DET NAS Jacksonville, Florida, and MTU 3033 NAMTRAGRU DET NAS North Island, California, conduct intermediate level maintenance training. Marine Corps intermediate level personnel with MOS 6072 receive on-the-job training on both the A/S 32M-14 and A/S 32M-17 cranes; i.e., no formal training is required.

Selected Reserve personnel may earn intermediate level maintenance NECs by attending formal training at NAMTRAGRU DETs providing a quota and funding are available, and the student is available to attend the training. Specific guidelines are contained in NAVPERS 18068F Volume II, Chapter IV, NEC.

a. Initial Training. Initial training on the A/S 32M-14 crane was completed between June 1982 and May 1986 by Pettibone Corporation. A one-week operator course was conducted in June 1982 at Pettibone Corporation in Rome, New York, for personnel from the Naval Air Technical and Engineering Service Command (NATEC), Marine Aircraft Group 26, and the Naval Aviation Maintenance Office. Pettibone Corporation at NAS Norfolk, Virginia, conducted two consecutive one-week maintenance courses, in April 1983 for personnel from NATEC, MALS-26, MALS-29, and AIMD Norfolk. Additionally, an instructor maintenance course was taught at NAMTRAGRU DET 3032, NAS Jacksonville, in May 1986.

The Entwistle Company in Hudson, Massachusetts, completed initial operator and intermediate maintenance training on the A/S 32M-17 crane in March 1992. Initial operators and the Entwistle Company conducted intermediate maintenance training for Integrated Logistics Support evaluation personnel, initial cadre, and Navy instructors.

b. Follow-on Training. The operator and maintenance curricula were developed by the Pettibone Corporation and Entwistle Company for the A/S 32M-14 and A/S 32M-17 cranes, respectively. The Naval Air Maintenance Training Group (NAMTRAGRU) made revisions to the course materials and implemented courses at AIMDs; MALS; MTU 3032, NAMTRAGRU DET NAS Jacksonville; and MTU 3033, NAMTRAGRU DET NAS North Island.

(1) Operator. Operator training courses C-600-3211 (A/S 32M-14 crane) and C-600-3332 (A/S 32M-17 crane) for organizational level personnel are four-day courses conducted by the local AIMD or MALS. No special NEC or MOS is required; however, a SE Operator License is required to operate the cranes. These courses have been developed by NAMTRAGRU and distributed to local AIMDs and MALS.

(2) Maintenance. The training track for the A/S 32M-14, A/S 32M-17 cranes also contains training for the A/S 48M-2/3 Shore-Based Aircraft Maintenance Platform. Refer to Navy Training Plan A-50-9405/A dated December 1993 for additional training information concerning the A/S 48M-2/3 Shore-Based Aircraft Maintenance Platform.

Title	**(Ashore) Crash and Material Handling Equipment Intermediate Maintenance**
CIN	D/E-602-7065
Model Manager ...	MTU 3032, NAMTRAGRU DET NAS Jacksonville
Description	Provides Aviation Support Equipment Technicians knowledge and skills relevant to the A/S 32M-14 and A/S 32M-17 cranes, and A/S 48M-2/3 Shore-Based Aircraft Maintenance Platform to perform intermediate maintenance in the AIMD environment under limited supervision; including proper procedures for safety, operational checkout, corrosion control, troubleshooting, periodic maintenance, component removal, repair and replacement, use of power tools and test equipment, and use of publications.
Location	MTU 3032, NAMTRAGRU DET NAS Jacksonville MTU 3033, NAMTRAGRU DET NAS North Island
Length	72 days
RFT date	Currently available
Skill identifier	AS 7616
TTE/TD	Major Technical Training Equipment (TTE) consist of A/S 32M-14, A/S 32M-17, and A/S 48M-2/3 cranes. Refer to Part IV for other applicable TTE. There are no Training Devices (TD).
Prerequisite	C-602-2026, Aviation Support Equipment Technician Class A1

c. Student Profiles

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
AS 7616	° C-602-2026, Aviation Support Equipment Technician Class A1

SKILL IDENTIFIER	PREREQUISITE SKILL AND KNOWLEDGE REQUIREMENTS
MOS 6072	° C-602-2026, Aviation Support Equipment Technician Class A1 ° D/E-602-7040, Support Equipment Engine/Gas Turbine and Related Systems Intermediate Maintenance

d. Training Pipelines. Intermediate Maintenance Courses, C-602-3267, C-602-3287, and C-602-3291 have been combined to make a new track D/E-602-7065 which awards NEC 7616.

I. ON-BOARD (IN-SERVICE) TRAINING

1. Proficiency or Other Training Organic to the New Development

a. Maintenance Training Improvement Program. The Maintenance Training Improvement Program (MTIP) is used to establish an effective and efficient training system responsive to fleet training requirements. MTIP is a training management tool that, through diagnostic testing, identifies individual training deficiencies at the organizational and intermediate levels of maintenance. MTIP is the comprehensive testing of one's knowledge. It consists of a bank of test questions managed through automated data processing. The Deputy Chief of Staff for Training assisted in development of MTIP by providing those question banks (software) already developed by the Navy. MTIP was implemented per OPNAVINST 4790.2 series. MTIP allows increased effectiveness in the application of training resources through identification of skills and knowledge deficiencies at the activity, work center, or individual technician level. Refresher training is concentrated where needed to improve identified skill and knowledge shortfalls.

b. Aviation Maintenance In-Service Training. Aviation Maintenance In-Service Training (AMIST) is intended to support the Fleet training requirements now satisfied by MTIP, and in that sense is the planned replacement. However, it is structured very differently, and will function as an integral part of the new Aviation Maintenance Training Continuum System (AMTCS) that will replace the existing aviation maintenance training structure. AMIST will provide standardized instruction to bridge the training gaps between initial and career training. With implementation of AMIST, technicians will be provided the training required to maintain a level of proficiency necessary to effectively perform the required tasks to reflect career progression. AMIST will begin when funding becomes available.

c. Aviation Maintenance Training Continuum System. AMTCS will redesign the aviation training process (training continuum), and introduce Computer Based Training (CBT) throughout the Navy technical training process. The application and adoption of recent advances in computer hardware and software technology will enable CBT, with its basic elements of

Computer Managed Instruction, Computer Aided Instruction, and Interactive Courseware, to be integrated into the training continuum and provide essential support for standardizing technical training. The planned replacement will begin in first quarter FY01.

2. Personnel Qualification Standards. NA

3. Other On-Board or In-Service Training Packages. Marine Corps on-board training is based on the current series of MCO P4790.12, Individual Training Standards System and Maintenance Training Management and Evaluation Program (MATMEP). This program is designed to meet Marine Corps, as well as Navy OPNAVINST 4790.2 series, maintenance training requirements. It is a performance-based, standardized, level-progressive, documentable, training management and evaluation program. It identifies and prioritizes task inventories by MOS through a front-end analysis process that identifies task, skill, and knowledge requirements of each MOS. MTIP questions coupled to MATMEP tasks will help identify training deficiencies that can be enhanced with refresher training. MATMEP will be replaced by AMTCS in approximately FY02.

J. LOGISTICS SUPPORT

1. Manufacturer and Contract Numbers

CONTRACT NUMBER	MANUFACTURER	ADDRESS
A/S 32M-14 Crane N000140-80-C-0464	Pettibone Corporation	Pettibone Corporation 1212 Dominic Street Rome, NY 13440
A/S 32M-17 Crane N000140-88-C-RJ36	Entwistle Company	The Entwistle Company Bigelow Street Hudson, MA 01749

2. Program Documentation

a. A/S 32M-14 Crane. The Integrated Logistics Support Plan (ILSP), CSE-0418: AA, and Maintenance Plan, MAPL-CSE-0418: RB, were developed by the NAWCAD Lakehurst in October and November 1981. The Operational Logistics Support Plan, SE-0418:AA, was revised in October 1984; the Maintenance Plan was revised in October 1985 and approved in June 1986.

b. A/S 32M-17 Crane. The ILSP, CSE-0645: AA was developed by the NAWCAD Lakehurst in April 1988. The NAWCAD Lakehurst developed the A/S 32M-17 Maintenance Plan, MaPl-CSE-0645, in December 1993 and the User Logistics Support Summary (ULSS) CSE-0645 in June 1994.

3. Technical Data Plan. All technical manuals are available. Refer to element IV.B.3 for a list of technical manuals required at the training sites.

4. Test Sets, Tools, and Test Equipment. All PM and CM for the A/S 32M-14 and the A/S 32M-17 cranes is performed with common hand tools.

5. Repair Parts. The Navy is the Primary Inventory Control Activity (PICA) in the procurement of the A/S 32M-14 and A/S 32M-17 cranes. The Naval Inventory Control Point, located in Mechanicsburg, Pennsylvania, performs the PICA functions and provisions the necessary spares and repair parts. The Material Support Dates for the A/S 32M-14 and A/S 32M-17 cranes were October 1984 and August 1996, respectively.

6. Human Systems Integration. NA

K. SCHEDULES

1. Installation and Delivery Schedules. The A/S 32M-14 and A/S 32M-17 cranes delivery is complete. The following table shows the number of cranes at each location per the Support Equipment Resources Management Information System as of October 1997.

ACTIVITY	A/S 32M-14	A/S 32M-17
NAS NAMTRAGRU DET Jacksonville	1	1
NAMTRAGRU DET NAS North Island	1	1
NAS Norfolk	3	0
NAS Jacksonville	1	1
Naval Station Roosevelt Roads, Puerto Rico	1	0
Marine Aircraft Group (MAG) 14 MCAS Cherry Point	5	0
MAG 26 MCAS New River	6	0
MAG 29 MCAS New River	4	1
Marine Aircraft Wing 2 MCAS Cherry Point	2	0
NAS Sigonella, Italy	2	0
Naval Test Wing Atlantic, NAWCAD Patuxent River	2	2
Naval Weapon Test Squadron China Lake	2	0
Naval Surface Warfare Center Coastal Systems Station Dahlgren Division Panama City	1	0
NAVAVNDEPOT NAS Jacksonville	0	1

ACTIVITY	A/S 32M-14	A/S 32M-17
NAS North Island	2	1
NAS Barbers Point	1	0
NAS Whidbey Island	0	1
MAG 13 MCAS Yuma	2	2
MAG 11 MCAS Miramar	1	0
MAG 16 MCAS Miramar	8	0
MAG 36 MCAS Futenma, Japan	3	0
MAG 12 MCAS Iwakuni, Japan	1	0
MAG 24 MCAS Kaneohe Bay	2	0
Strategic Communication Wing Tinker AFB	1	0
Naval Air Facility (NAF) Atsugi, Japan	1	0
MCAS Yuma	1	0
NAF Misawa, Japan	1	0
Naval Support Facility Diego Garcia	1	0
Naval Air Force Pacific Fleet Response Pool NAS North Island	0	1
NAS Joint Reserve Base Willow Grove	1	0
NAF Andrews Air Force Base	0	1
NAS Joint Reserve Base New Orleans	1	0
MALS 49 MCAS Newburgh	0	1
NAS Santa Clara Naval Air Reserve Moffett Field	1	0
NAS Joint Reserve Base Fort Worth	1	1
Blount Island Command, Jacksonville	0	12
Naval Supply Center Cheatham Maritime Preposition Ships Aviation Ground Support Equipment	0	1
Naval Aviation Logistics Center Ground Support Equipment, Solomons	0	1
Total	**60**	**29**

2. Ready For Operational Use Schedule. The A/S 32M-14 and A/S 32M-17 cranes are Ready For Operational Use upon delivery.

3. Time Required to Install at Operational Sites. NA

4. Foreign Military Sales and Other Source Delivery Schedule. NA

5. Training Device and Technical Training Equipment Delivery Schedule. Shipments of the A/S 32M-14 and A/S 32M-17 cranes were completed as of July 1983 and March 1994, respectively, to MTU 3032 and MTU 3033. Refer to Part IV for applicable TTE. TD is NA.

L. GOVERNMENT FURNISHED EQUIPMENT AND CONTRACTOR FURNISHED EQUIPMENT TRAINING REQUIREMENTS. NA

M. RELATED NTSPs AND OTHER APPLICABLE DOCUMENTS

DOCUMENT OR NTSP TITLE	DOCUMENT OR NTSP NUMBER	PDA CODE	STATUS
A/S 32A-35/36 CV Crash Crane and Amphibious Assault Crash Crane	A-50-8110C/A	PMA260	Approved Jun 98
A/S 48M-2/3 Shore-Based Aircraft Maintenance Platforms	A-50-9405/A	PMA260	Approved Dec 96
A/S 32M-14 Multi-purpose Aircraft Component Maintenance Crane ILSP	CSE-0418:AA	PMA260	Approved Oct 81
A/S 32M-14 Maintenance Plan	MAPL-CSE-0418:RB Rev. B	PMA260	Approved Jun 86
A/S 32M-14 Operational Logistics Support Plan	SE-0418:AA	PMA260	Revised Oct 84
A/S 32M-17 Multi-purpose Aircraft Component Maintenance Crane ILSP	CSE-0645:AA	PMA260	Approved Apr 88
A/S 32M-17 Maintenance Plan	MaPl-CSE-0645	PMA260	Approved Dec 93
A/S 32M-17 Aircraft Maintenance Crane Approved User Logistics Support Summary	CSE-0645	PMA260	Approved Jun 94

PART II - BILLET AND PERSONNEL REQUIREMENTS

The following elements are not affected by the A/S32M-14 and A/S32M-17 Aircraft Maintenance Cranes, and therefore, are not included in Part IV of this NTSP.

II.A. Billet Requirements

II.A.2.a. Operational and Fleet Support Activity Deactivation Schedule

II.A.2.b. Billets to be Deleted in Operational and Fleet Support Activities

II.A.2.c. Total Billets to be Deleted in Operational and Fleet Support Activities

PART II - BILLET AND PERSONNEL REQUIREMENTS

II.A. BILLET REQUIREMENTS

II.A.1.a. OPERATIONAL AND FLEET SUPPORT ACTIVITY ACTIVATION SCHEDULE

SOURCE: Total Force Maintenance Management System **DATE:** 2/1/99

ACTIVITY, UIC		PFYs	CFY99	FY00	FY01	FY02	FY03
FLEET SUPPORT ACTIVITIES - NAVY							
ABFC FMP MMF Hotel Washington D C	68822	1	0	0	0	0	0
NAS Key West	44320	1	0	0	0	0	0
NAS Weymouth AIMD	44491	1	0	0	0	0	0
NAS Willow Grove RAIMD	44493	1	0	0	0	0	0
Naval Test Wing Atlantic	39782	1	0	0	0	0	0
NAVSTA Roosevelt Roads AIMD	44373	1	0	0	0	0	0
NAVSTA Rota AIMD	44374	1	0	0	0	0	0
ABFC FMP Alpha NAS Alameda	49738	1	0	0	0	0	0
NAF Atsugi AIMD	44323	1	0	0	0	0	0
NAS North Island	44326	1	0	0	0	0	0
NAS Whidbey Island	44329	1	0	0	0	0	0
NAVAIRRES Santa Clara AIMD	44489	1	0	0	0	0	0
TOTAL:		12	0	0	0	0	0

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
FLEET SUPPORT ACTIVITIES - NAVY					
ABFC FMP MMF Hotel Washington D C, 68822					
TAR	0	1	AS2	7613	7616
SELRES	0	1	AS2	7607	7616
ACTIVITY TOTAL:	0	2			
NAS Key West, 44320					
ACDU	0	1	AS2	7613	7616
ACTIVITY TOTAL:	0	1			
NAS Weymouth AIMD, 44491					
SELRES	0	1	AS2	7607	7616
ACTIVITY TOTAL:	0	1			
NAS Willow Grove RAIMD, 44493					
TAR	0	1	AS2	7607	7616
	0	1	AS2	7613	7616
ACTIVITY TOTAL:	0	2			
Naval Test Wing Atlantic, 39782					
ACDU	0	2	AS2	7613	7616
	0	2	AS3	7616	
ACTIVITY TOTAL:	0	4			
NAVSTA Roosevelt Roads AIMD, 44373					
ACDU	0	1	AS3	7616	
	0	1	ASAN	7616	
ACTIVITY TOTAL:	0	2			
NAVSTA Rota AIMD, 44374					
ACDU	0	1	AS2	7613	7616
	0	1	AS3	7616	
ACTIVITY TOTAL:	0	2			
ABFC FMP Alpha NAS Alameda, 49738					
TAR	0	1	AS2	7613	7616
SELRES	0	1	AS2	7607	7616
ACTIVITY TOTAL:	0	2			

II.A.1.b. BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

ACTIVITY, UIC, PHASING INCREMENT	BILLETS OFF	BILLETS ENL	DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS
NAF Atsugi AIMD, 44323					
ACDU	0	1	AS3	7616	
	0	1	ASAN	7616	
ACTIVITY TOTAL:	0	2			
NAS North Island, 44326					
ACDU	0	1	AS2	7613	7616
	0	1	AS2	7616	9502
	0	1	AS3	7616	
ACTIVITY TOTAL:	0	3			
NAS Whidbey Island, 44329					
ACDU	0	1	AS1	7616	9502
	0	1	AS3	7616	
	0	1	ASAN	7616	
ACTIVITY TOTAL:	0	3			
NAVAIRRES Santa Clara AIMD, 44489					
TAR	0	1	AS2	7607	7616
ACTIVITY TOTAL:	0	1			

II.A.1.c. TOTAL BILLETS REQUIRED FOR OPERATIONAL AND FLEET SUPPORT ACTIVITIES

DESIG/ RATING	PNEC/SNEC PMOS/SMOS	PFYs OFF	PFYs ENL	CFY99 OFF	CFY99 ENL	FY00 OFF	FY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL
NAVY FLEET SUPPORT ACTIVITIES - ACDU													
AS1	7616 9502			1	1	1	1	1	1	1	1	1	1
AS2	7613 7616			5	5	5	5	5	5	5	5	5	5
AS2	7616 9502			1	1	1	1	1	1	1	1	1	1
AS3	7616			7	7	7	7	7	7	7	7	7	7
ASAN	7616			3	3	3	3	3	3	3	3	3	3
NAVY FLEET SUPPORT ACTIVITIES - TAR													
AS2	7607 7616			2	2	2	2	2	2	2	2	2	2
AS2	7613 7616			3	3	3	3	3	3	3	3	3	3
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
AS2	7607 7616			3	3	3	3	3	3	3	3	3	3

SUMMARY TOTALS:

NAVY FLEET SUPPORT ACTIVITIES - ACDU													
				17	17	17	17	17	17	17	17	17	17
NAVY FLEET SUPPORT ACTIVITIES - TAR													
				5	5	5	5	5	5	5	5	5	5
NAVY FLEET SUPPORT ACTIVITIES - SELRES													
				3	3	3	3	3	3	3	3	3	3

GRAND TOTALS:

NAVY - ACDU													
				17	17	17	17	17	17	17	17	17	17
NAVY - TAR													
				5	5	5	5	5	5	5	5	5	5
NAVY - SELRES													
				3	3	3	3	3	3	3	3	3	3

II.A.3. TRAINING ACTIVITIES INSTRUCTOR AND SUPPORT BILLET REQUIREMENTS

DESIG RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY99 OFF	CFY99 ENL	FY00 OFF	FY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL
TRAINING ACTIVITY, LOCATION, UIC: MTU 3032 NAMTRAGRU DET, NAS Jacksonville, 66051														
INSTRUCTOR BILLETS														
ACDU														
AS1	7616	9502	0	2	0	2	0	2	0	2	0	2	0	2
TOTAL:			0	2	0	2	0	2	0	2	0	2	0	2

DESIG RATING	PNEC/SNEC PMOS/SMOS		PFYs OFF	PFYs ENL	CFY99 OFF	CFY99 ENL	FY00 OFF	FY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL
TRAINING ACTIVITY, LOCATION, UIC: MTU 3033 NAMTRAGRU DET, NAS North Island, 66065														
INSTRUCTOR BILLETS														
ACDU														
AS1	7616	9502	0	2	0	2	0	2	0	2	0	2	0	2
AS2	7616	9502	0	1	0	1	0	1	0	1	0	1	0	1
TOTAL:			0	3	0	3	0	3	0	3	0	3	0	3

II.A.4. CHARGEABLE STUDENT BILLET REQUIREMENTS

ACTIVITY, LOCATION, UIC	USN/ USMC	PFYs OFF	PFYs ENL	CFY99 OFF	CFY99 ENL	FY00 OFF	FY00 ENL	FY01 OFF	FY01 ENL	FY02 OFF	FY02 ENL	FY03 OFF	FY03 ENL
MTU 3032 NAMTRAGRU DET, NAS Jacksonville, 66051													
	NAVY		0.6		0.6		0.6		0.6		0.6		0.6
MTU 3033 NAMTRAGRU DET, NAS North Island, 66065													
	NAVY		0.6		0.6		0.6		0.6		0.6		0.6
SUMMARY TOTALS:													
	NAVY		1.2		1.2		1.2		1.2		1.2		1.2
GRAND TOTALS:													
			1.2		1.2		1.2		1.2		1.2		1.2

II.A.5. ANNUAL INCREMENTAL AND CUMULATIVE BILLETS

DESIG/ RATING	PNEC/ PMOS	SNEC/ SMOS	BILLET BASE	CFY99 +/-	CFY99 CUM	FY00 +/-	FY00 CUM	FY01 +/-	FY01 CUM	FY02 +/-	FY02 CUM	FY03 +/-	FY03 CUM
a. OFFICER - USN	**NA.**												
b. ENLISTED - USN													
Fleet Support Billets ACDU and TAR													
AS1	7616	9502	1	0	1	0	1	0	1	0	1	0	1
AS2	7607	7616	2	0	2	0	2	0	2	0	2	0	2
AS2	7613	7616	8	0	8	0	8	0	8	0	8	0	8
AS2	7616	9502	1	0	1	0	1	0	1	0	1	0	1
AS3	7616		7	0	7	0	7	0	7	0	7	0	7
ASAN	7616		3	0	3	0	3	0	3	0	3	0	3
Staff Billets ACDU and TAR													
AS1	7616	9502	4	0	4	0	4	0	4	0	4	0	4
AS2	7616	9502	1	0	1	0	1	0	1	0	1	0	1
Chargeable Student Billets ACDU and TAR													
			1	0	1	0	1	0	1	0	1	0	1
SELRES Billets													
AS2	7607	7616	3	0	3	0	3	0	3	0	3	0	3
TOTAL USN ENLISTED BILLETS:													
Fleet Support			22	0	22	0	22	0	22	0	22	0	22
Staff			5	0	5	0	5	0	5	0	5	0	5
Chargeable Student			1	0	1	0	1	0	1	0	1	0	1
SELRES			3	0	3	0	3	0	3	0	3	0	3
c. OFFICER - USMC	**NA.**												
d. ENLISTED - USMC	**NA.**												

II.B. PERSONNEL REQUIREMENTS

II.B.1. ANNUAL TRAINING INPUT REQUIREMENTS

CIN, COURSE TITLE: D-602-7065, Maintenance Crane Intermediate Maintenance Technician
COURSE LENGTH: 10.4 Weeks **TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% **BACKOUT FACTOR:** 0.17

TRAINING		ACDU/TAR	CFY99		FY00		FY01		FY02		FY03	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3032 NAMTRAGRU DET, NAS Jacksonville												
	NAVY	ACDU		3		3		3		3		3
		TAR		1		1		1		1		1
		SELRES		0		0		1		0		0
		TOTAL:		4		4		5		4		4

CIN, COURSE TITLE: E-602-7065, Maintenance Crane Intermediate Maintenance Technician
COURSE LENGTH: 10.4 Weeks **TOUR LENGTH:** 36 Months
ATTRITION FACTOR: Navy: 10% **BACKOUT FACTOR:** 0.17

TRAINING		ACDU/TAR	CFY99		FY00		FY01		FY02		FY03	
ACTIVITY	SOURCE	SELRES	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL
MTU 3033 NAMTRAGRU DET, NAS North Island												
	NAVY	ACDU		3		3		3		3		3
		TAR		1		1		1		1		1
		SELRES		0		0		0		0		0
		TOTAL:		4		4		4		4		4

PART III - TRAINING REQUIREMENTS

The following elements are not affected by the A/S32M-14 and A/S32M-17 Aircraft Maintenance Cranes, and therefore, are not included in Part III of this NTSP.

III.A.1. Initial Training Requirement

III.A.2.b. Planned Courses

III.A.2.c. Unique Courses

III.A.3. Existing Training Phased Out

III.A2. FOLLOW-ON TRAINING

III.A.2.a. EXISTING COURSES

CIN, COURSE TITLE: D-602-7065, Maintenance Crane Intermediate Maintenance Technician
TRAINING ACTIVITY: MTU 3032 NAMTRAGRU DET
LOCATION, UIC: NAS Jacksonville, 66051

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	4		4		4		4		4	ATIR
	4		4		4		4		4	Output
	0.6		0.6		0.6		0.6		0.6	AOB
	0.6		0.6		0.6		0.6		0.6	Chargeable

SOURCE: NAVY **STUDENT CATEGORY:** SELRES

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	0		0		1		0		0	ATIR
	0		0		1		0		0	Output
	0.0		0.0		0.2		0.0		0.0	AOB
	0.0		0.0		0.0		0.0		0.0	Chargeable

CIN, COURSE TITLE: E-602-7065, Maintenance Crane Intermediate Maintenance Technician
TRAINING ACTIVITY: MTU 3033 NAMTRAGRU DET
LOCATION, UIC: NAS North Island, 66065

SOURCE: NAVY **STUDENT CATEGORY:** ACDU - TAR

CFY99		FY00		FY01		FY02		FY03		
OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	OFF	ENL	
	4		4		4		4		4	ATIR
	4		4		4		4		4	Output
	0.6		0.6		0.6		0.6		0.6	AOB
	0.6		0.6		0.6		0.6		0.6	Chargeable

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

The following elements are not affected by the A/S32M-14 and A/S32M-17 Aircraft Maintenance Cranes, and therefore, are not included in Part IV of this NTSP.

IV.A. Training Hardware

IV.A.2. Training Devices

IV.B. Courseware Requirements

IV.B.1. Training Services

IV.C. Facility Requirements

IV.C.1. Facility Requirements Summary (Space / Support) By Activity

IV.C.2. Facility Requirements Detailed By Activity And Course

IV.C.3. Facility Project Summary By Program

PART IV - TRAINING LOGISTICS SUPPORT REQUIREMENTS

IV.A. TRAINING HARDWARE

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-602-3267, A/S32M-14 Aircraft Maintenance Crane Intermediate Maintenance (Track D-602-7065)
TRAINING ACTIVITY: MTU 3032 NAMTRAGRU DET
LOCATION, UIC: NAS Jacksonville, 66051

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE					
001	A/S32M-14 Aircraft Maintenance Crane	1	Apr 90	GFE	On board
003	Electro-Hydraulic Control Stick	1	Apr 90	GFE	On board
004	3 Stage Pump Assembly	1	Apr 90	GFE	On board
005	Lifting Cylinder Balance Valve Check	1	Apr 90	GFE	On board
006	Jack Stands	4	Apr 90	GFE	On board
007	Hydraulic Jack 10 Ton	1	Apr 90	GFE	On board
008	Overload Warning System PMS 7071 Alignment Set	1	Apr 90	GFE	On board
010	Maximizer Test Box T-10199	1	Apr 90	GFE	On board
013	Converter Valve	1	Apr 90	GFE	On board

CIN, COURSE TITLE: C-602-3287, A/S32M-17 8 1/2 Ton Aircraft Maintenance Crane Intermediate (Track D-602-7065)
TRAINING ACTIVITY: MTU 3032 NAMTRAGRU DET
LOCATION, UIC: NAS Jacksonville, 66051

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE					
002	A/S32M-17 8 1/2 Ton Aircraft Maintenance Crane	1	Mar 94	GFE	On board
009	Overload Warning System Alignment Set	1	Mar 94	GFE	On board

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-602-3291, A/S 48M-2/3 Servicing Platform Intermediate (Track D-602-7065)
TRAINING ACTIVITY: MTU 3032 NAMTRAGRU DET
LOCATION, UIC: NAS Jacksonville, 66051

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE					
007	Hydraulic Jack 10 Ton	1	Jan 95	GFE	On board
011	Trestle 10 Ton Jack Stand	4	Jan 95	GFE	On board
012	Service Platform	2	Jan 95	GFE	On board

CIN, COURSE TITLE: C-602-3267, A/S32M-14 Aircraft Maintenance Crane Intermediate Maintenance (Track E-602-7065)
TRAINING ACTIVITY: MTU 3033 NAMTRAGRU DET
LOCATION, UIC: NAS North Island, 66065

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE					
001	A/S32M-14 Aircraft Maintenance Crane	1	Oct 89	GFE	On board
003	Electro-Hydraulic Control Stick	1	Oct 89	GFE	On board
004	3 Stage Pump Assembly	1	Oct 89	GFE	On board
005	Lifting Cylinder Balance Valve Check	1	Oct 89	GFE	On board
006	Jack Stands	4	Oct 89	GFE	On board
007	Hydraulic Jack 10 Ton	1	Oct 89	GFE	On board
008	Overload Warning System PMS 7071 Alignment Set	1	Oct 89	GFE	On board
010	Maximizer Test Box T-10199	1	Oct 89	GFE	On board
013	Converter Valve	1	Oct 89	GFE	On board

IV.A.1. TTE / GPTE / SPTE / ST / GPETE / SPETE

CIN, COURSE TITLE: C-602-3287, A/S32M-17 8 1/2 Ton Aircraft Maintenance Crane Intermediate (Track E-602-7065)
TRAINING ACTIVITY: MTU 3033 NAMTRAGRU DET
LOCATION, UIC: NAS North Island, 66065

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE					
002	A/S32M-17 8 1/2 Ton Aircraft Maintenance Crane	1	May 93	GFE	On board
009	Overload Warning System Alignment Set	1	May 93	GFE	On board

CIN, COURSE TITLE: C-602-3291, A/S 48M-2/3 Servicing Platform Intermediate (Track E-602-7065)
TRAINING ACTIVITY: MTU 3033 NAMTRAGRU DET
LOCATION, UIC: NAS North Island, 66065

ITEM NUMBER	EQUIPMENT / TYPE OR RANGE OF REPAIR PARTS	QTY REQUIRED	DATE REQUIRED	GFE CFE	STATUS
TTE					
007	Hydraulic Jack 10 Ton	1	Jan 95	GFE	On board
011	Trestle 10 Ton Jack Stand	4	Jan 95	GFE	On board
012	Service Platform	2	Jan 95	GFE	On board

IV.B. COURSEWARE REQUIREMENTS

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-602-3267, A/S32M-14 AIRCRAFT Maintenance Crane Intermediate Maintenance (Track D-602-7065)
TRAINING ACTIVITY: MTU 3032 NAMTRAGRU DET
LOCATION, UIC: NAS Jacksonville, 66051

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Course/Curriculum Outlines	3	May 90	On board
Instructor Lesson Guides	3	May 90	On board
Student Guides	70	May 90	On board

CIN, COURSE TITLE: C-602-3287, A/S32M-17 8 1/2 Ton Aircraft Maintenance Crane Intermediate Maintenance (Track D-602-7065)
TRAINING ACTIVITY: MTU 3032 NAMTRAGRU DET
LOCATION, UIC: NAS Jacksonville, 66051

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Course/Curriculum Outlines	3	May 98	On board
Instructor Lesson Guides	3	May 98	On board
Student Guides	70	May 98	On board

CIN, COURSE TITLE: C-602-3291, A/S 48M-2/3 Servicing Platform Intermediate (Track D-602-7065)
TRAINING ACTIVITY: MTU 3032 NAMTRAGRU DET
LOCATION, UIC: NAS Jacksonville, 66051

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Course/Curriculum Outlines	3	Jan 95	On board
Instructor Lesson Guides	3	Jan 95	On board
Student Guides	30	Jan 95	On board

CIN, COURSE TITLE: C-602-3267, A/S32M-14 AIRCRAFT Maintenance Crane Intermediate Maintenance (Track E-602-7065)
TRAINING ACTIVITY: MTU 3033 NAMTRAGRU DET
LOCATION, UIC: NAS North Island, 66065

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Course/Curriculum Outlines	3	Oct 89	On board
Instructor Lesson Guides	4	Oct 89	On board
Student Guides	20	Oct 89	On board

IV.B.2. CURRICULA MATERIALS AND TRAINING AIDS

CIN, COURSE TITLE: C-602-3287, A/S32M-17 8 1/2 Ton Aircraft Maintenance Crane Intermediate Maintenance (Track E-602-7065)
TRAINING ACTIVITY: MTU 3033 NAMTRAGRU DET
LOCATION, UIC: NAS North Island, 66065

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Course/Curriculum Outlines	3	May 98	On board
Instructor Lesson Guides	4	May 98	On board
Student Guides	20	May 98	On board

CIN, COURSE TITLE: C-602-3291, A/S 48M-2/3 Servicing Platform Intermediate (Track E-602-7065)
TRAINING ACTIVITY: MTU 3033 NAMTRAGRU DET
LOCATION, UIC: NAS North Island, 66065

TYPES OF MATERIAL OR AID	QTY REQD	DATE REQD	STATUS
Course/Curriculum Outlines	3	Jan 95	On board
Instructor Lesson Guides	3	Jan 95	On board
Student Guides	30	Jan 95	On board

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-602-3267, A/S32M-14 Aircraft Maintenance Crane Intermediate Maintenance (Track D-602-7065)
TRAINING ACTIVITY: MTU 3032 NAMTRAGRU DET
LOCATION, UIC: NAS Jacksonville, 66051

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA17-1-125 Ground Support Equipment Cleaning and Corrosion Control	Hard copy	9	May 90	On board
NA19-25G-16 Operation Instructions and Intermediate and Depot Maintenance with Illustrated Parts Break Down Aircraft Maintenance Crane	Hard copy	9	May 90	On board
NA19-600-196-6-1 Preoperational Check List, Aircraft Maintenance Crane Wheel Mounted , 8 1/2 Ton A/S32M-14 Pettibone	Hard copy	9	May 90	On board
NA19-600-196-6-2 Periodic Maintenance Requirements Manual, Aircraft Maintenance Crane Wheel Mounted 8 1/2 A/S32M-14 Pettibone	Hard copy	9	May 90	On board

CIN, COURSE TITLE: C-602-3287, A/S32M-17 8 1/2 Ton Aircraft Maintenance Crane Intermediate Maintenance (Track D-602-7065)
TRAINING ACTIVITY: MTU 3032 NAMTRAGRU DET
LOCATION, UIC: NAS Jacksonville, 66051

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA17-1-125 Ground Support Equipment Cleaning and Corrosion Control	Hard copy	9	May 98	On board
NA19-25G-18 Operation Instructions and Intermediate and Depot Maintenance with Illustrated Parts Break Down 8 1/2 Ton Aircraft Maintenance	Hard copy	9	May 98	On board
NA19-600-266-6-1 Preoperational Check List, 8 1/2 Ton Aircraft Maintenance Crane A/S32M-17	Hard copy	9	May 98	On board
NA19-600-266-6-2 Periodic Maintenance Requirements Cards 8 1/2 Ton Aircraft Maintenance Crane A/S32M-17	Hard copy	9	May 98	On board

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-602-3291, A/S 48M-2/3 Servicing Platform Intermediate (Track D-602-7065)
TRAINING ACTIVITY: MTU 3032 NAMTRAGRU DET
LOCATION, UIC: NAS Jacksonville, 66051

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA-01-1A-20 Aviation Hose and Tube Manual	Hard copy	9	Jan 95	On board
NA00-80T-96 U. S. Navy Support Equipment Common Basic Handling and Safety	Hard copy	9	Jan 95	On board
NA01-1A-17 Aviation Hydraulics Manual	Hard copy	9	Jan 95	On board
NA16-1-8.1 Aircraft Maintenance Aeronautical Support Equipment Work Unit Manual	Hard copy	9	Jan 95	On board
NA17-1-125 Ground Support Equipment Cleaning and Corrosion Control	Hard copy	9	Jan 95	On board
NA17-1-129 Support Equipment Tire and Wheel Manual	Hard copy	9	Jan 95	On board
NA19-15-36 Technical Manual, Operation and Intermediate Maintenance Instruction with Illustrated Parts Break Down	Hard copy	9	Jan 95	On board
NA19-600-283-6-1 Preoperational Check List A/S48M-2/3 Servicing Platform	Hard copy	9	Jan 95	On board
NA19-600-283-6-2 Technical Manual, Periodic Maintenance Requirements Cards A/S48M-2/3 Servicing Platform	Hard copy	9	Jan 95	On board

CIN, COURSE TITLE: C-602-3267, A/S32M-14 Aircraft Maintenance Crane Intermediate Maintenance (Track E-602-7065)
TRAINING ACTIVITY: MTU 3033 NAMTRAGRU DET
LOCATION, UIC: NAS North Island, 66065

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA17-1-125 Ground Support Equipment Cleaning and Corrosion Control	Hard copy	1	Jan 95	On board
NA19-25G-16 Operation Instructions and Intermediate and Depot Maintenance with Illustrated Parts Break Down Aircraft Maintenance Crane	Hard copy	9	Oct 89	On board
NA19-600-196-6-1 Preoperational Check List, Aircraft Maintenance Crane Wheel Mounted , 8 1/2 Ton A/S32M-14 Pettibone	Hard copy	6	Oct 89	On board
NA19-600-196-6-2 Periodic Maintenance Requirements Manual, Aircraft Maintenance Crane Wheel Mounted 8 1/2 A/S32M-14 Pettibone	Hard copy	9	Oct 89	On board

IV.B.3. TECHNICAL MANUALS

CIN, COURSE TITLE: C-602-3287, A/S32M-17 8 1/2 Ton Aircraft Maintenance Crane Intermediate Maintenance (Track E-602-7065)
TRAINING ACTIVITY: MTU 3033 NAMTRAGRU DET
LOCATION, UIC: NAS North Island, 66065

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA17-1-125 Ground Support Equipment Cleaning and Corrosion Control	Hard copy	1	Jan 95	On board
NA19-25G-18 Operation Instructions and Intermediate and Depot Maintenance with Illustrated Parts Break Down 8 1/2 Ton Aircraft Maintenance	Hard copy	6	May 98	On board
NA19-600-266-6-1 Preoperational Check List, 8 1/2 Ton Aircraft Maintenance Crane A/S32M-17	Hard copy	2	May 98	On board
NA19-600-266-6-2 Periodic Maintenance Requirements Cards 8 1/2 Ton Aircraft Maintenance Crane A/S32M-17	Hard copy	5	May 98	On board

CIN, COURSE TITLE: C-602-3291, A/S 48M-2/3 Servicing Platform Intermediate (Track E-602-7065)
TRAINING ACTIVITY: MTU 3033 NAMTRAGRU DET
LOCATION, UIC: NAS North Island, 66065

TECHNICAL MANUAL NUMBER / TITLE	MEDIUM	QTY REQD	DATE REQD	STATUS
NA00-80T-96 U. S. Navy Support Equipment Common Basic Handling and Safety	Hard copy	1	Jan 95	On board
NA01-1A-17 Aviation Hydraulics Manual	Hard copy	1	Jan 95	On board
NA01-1A-20 Aviation Hose and Tube Manual	Hard copy	1	Jan 95	On board
NA16-1-8.1 Aircraft Maintenance Aeronautical Support Equipment Work Unit Manual	Hard copy	1	Jan 95	On board
NA17-1-129 Support Equipment Tire and Wheel Manual	Hard copy	1	Jan 95	On board
NA19-15-36 Technical Manual, Operation and Intermediate Maintenance Instruction with Illustrated Parts Break Down	Hard copy	10	Jan 95	On board
NA19-600-283-6-1 Preoperational Check List A/S48M-2/3 Servicing Platform	Hard copy	8	Jan 95	On board
NA19-600-283-6-2 Technical Manual, Periodic Maintenance Requirements Cards A/S48M-2/3 Servicing Platform	Hard copy	12	Jan 95	On board

PART V - MPT MILESTONES

COG CODE	MPT MILESTONE	DATE	STATUS
PDA	Awarded A/S32M-14 Production Contract.	FY80	Completed
OPTEVFOR	Completed TECHEVAL.	Mar 82	Completed
PDA	Promulgated A/S32M-14 ILS Master Plan.	May 82	Completed
TSA	Completed A/S32M-14 Training Services.	Jun 82	Completed
PDA	Awarded A/S32M-14Production Contract	FY82	Completed
PDA	Promulgated A/S32M-14 Draft NTP for Review and Comments.	May 83	Completed
PDA	Fleet Introduction A/S32M-14.	Jul 83	Completed
PDA	Submitted Proposed A/S32M-14 NTP to OPNAV.	Sep 83	Completed
TSA	Delivered A/S32M-14 Technical Training Equipment.	FY83	Completed
ACNO	Approved A/S32M-14 NTP.	Jun 84	Completed
PDA	Awarded A/S32M-17 Production Contract.	Feb 88	Completed
PDA	Promulgated A/S32M-17 ILS Master Plan.	Apr 88	Completed
ACNO	Promulgated A/S32M-14 Update NTP.	Sep 89	Completed
TSA	Delivered A/S32M-14 Curricula Materials.	Nov 89	Completed
TA	Began A/S32M-14 Follow-On Training.	Jan 90	Completed
TSA	Began A/S32M-17 Training Services.	Mar 91	Completed
PDA	Fleet Introduction A/S32M-17.	Jun 91	Completed
TSA	Delivered A/S32M-17 Technical Training Equipment.	Jun 91	Completed
PDA	Submitted A/S32M-14 and A/S32M-17 Proposed NTP to OPNAV.	FY91	Completed
OPTEVFOR	Completed A/S32M-17 TECHEVAL.	Aug 92	Completed
ACNO	Approved A/S32M-14 and A/S32M-17 NTP.	FY92	Completed
ACNO	Updated A/S32M-14 and A/S32M-17 NTP.	FY93	Completed
ACNO	Approved A/S32M-17 User Logistic Support Summary	Jun 94	Completed
TSA	Updated A/S32M-14 and A/S32M-17 Draft NTSP.	May 98	Completed
TSA	Delivered A/S32M-17 Curricula Material.	May 98	Completed
TSA	Promulgate A/S32M-14 and A/S32M-17 Draft NTSP.	Jun 99	Pending

PART VI - DECISION ITEMS / ACTION REQUIRED

DECISION ITEM OR ACTION REQUIRED	COMMAND ACTION	DUE DATE	STATUS

No actions are pending at this time.

PART VII - POINTS OF CONTACT

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
CDR James Woolway Deputy Head, Plans, Policy, and Fleet Maintenance Support CNO, N881B woolway.james@hq.navy.mil	**COMM:** (703) 604-7747 **DSN:** 664-7747 **FAX:** (703) 604- 6972
CAPT Frank Smith Aviation Technical Training CNO, N889H smith.frank@hq.navy.mil	**COMM:** (703) 604-7730 **DSN:** 664-7730 **FAX:** (703) 604-6969
AZC Scott Dean NTSP Manager CNO, N889H7 dean.scott@hq.navy.mil	**COMM:** (703) 604-7714 **DSN:** 664-7714 **FAX:** (703) 604-6939
LCDR Brian Mack Head Aviation Manpower CNO, N122C1 n122c1@bupers.navy.mil	**COMM:** (703) 695-3247 **DSN:** 225-3247 **FAX:** (703) 614-5308
Mr. Robert Zweibel Training Technology Policy CNO, N751 bobzweibel@ntsc.navy.mil	**COMM:** (703) 614-1344 **DSN:** 224-1344 **FAX:** (703) 695-5698
COL Kenneth Hill Branch Head, USMC Aviation Manpower Management CMC, ASM 1 hillkw@hqmc.usmc.mil	**COMM:** (703) 614-1244 **DSN:** 224-1244 **FAX:** (703) 614-1309
Mr. Pat Weaver Program Manager NAVAIRSYSCOM, PMA260 weaverps@navair.navy.mil	**COMM:** (301) 757-6846 **DSN:** 757-6846 **FAX:** (301) 757 6972
AMHC Kurt Schweiger Aviation Training Manager NAVAIRSYSCOM, PMA205-3E2 schweigerkw@navair.navy.mil	**COMM:** (301) 757-8145 **DSN:** 757-8145 **FAX:** (301) 757-8079
Mr. Greg Pullen Team Leader NAWCAD Lakehurst, 11X717 pulleng@lakehurst.navy.mil	**COMM:** (301) 323-4722 **DSN:** 624-4722 **FAX:** (732)-323-4029
Mr. Russ Fink Logistics Manager NAWCAD Lakehurst, 3144 FINKR4@Lakehurst.navy.mil	**COMM:** (732) 323-1816 **DSN:** 624- 1816 **FAX:** (732)-323-4029

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
Mr. Chris Lipuma Project Engineer NAWCAD Lakehurst, 4825 lipumac1@lakehurst.navy.mil	**COMM:** (732) 323-2199 **DSN:** 624-2199 **FAX:** (732) 323-4917
CDR Robin Mason Aviation NTSP Manager CINCLANTFLT, N-721 masonrf@clf.navy.mil	**COMM:** (757) 836-0101 **DSN:** 836-0101 **FAX:** (757) 836-0141
Mr. Robert Long Deputy Director for Training CINCPACFLT, N70 longrh@cpf.navy.mil	**COMM:** (808) 471-8542 **DSN:** 471-8513 **FAX:** (808) 471-8596
ASCS George Lugear Support Equipment Program Manager COMNAVAIRESFOR, N4333 lugeara@cnrf.nola.navy.mil	**COMM:** (504) 678-5916 **DSN:** 678-5916 **FAX:** (504) 678-6579
CAPT Robert Gibson Deputy Assistant, Chief of Military Personnel for Distribution NAVPERSCOM, NPC 4B p4b@persnet.navy.mil	**COMM:** (901) 874-3529 **DSN:** 882-3529 **FAX:** (901) 874-2606
CDR Fredrick Lineberg Branch Head, Aviation Rating NAVPERSCOM, NPC-404 p404@persnet.navy.mil	**COMM:** (901) 874-3691 **DSN:** 882-3691 **FAX:** (901) 874-2642
MAJ Jon Doering Total Force Structure Division MCCDC, C5325A doeringj@quantico.usmc.mil	**COMM:** (703) 784-6241 **DSN:** 278-6241 **FAX:** (703) 784-6072
CDR Erich Blunt Aviation Technical Training CNET, ETE32 cdr_erich.blunt@smtp.cnet.navy.mil	**COMM:** (850) 452-4915 **DSN:** 922-4915 **FAX:** (850) 452-4901
ASCS James Strawderman Maintenance Training Coordinator NAMTRAGRU HQ, N 5218 namtragruhq.n5218@smtp.cnet.navy.mil	**COMM:** (850) 452-9880 ext. 197 **DSN:** 922-9880 ext. 197 **FAX:** (850) 452-9952
AS1 Mark Etheridge Instructor MTU 3032 NAMTRAGRU DET NA	**COMM:** (904) 942-3310 **DSN:** 942-3310 **FAX:** (904) 942-0056
AS1 Sean Donaway Instructor MTU 3032 NAMTRAGRU DET NA	**COMM:** (904) 942-3310 **DSN:** 942-3310 **FAX:** (904) 942-0056

NAME / FUNCTION / ACTIVITY, CODE / INTERNET EMAIL	TELEPHONE NUMBERS
AS1 Ray Guerrero Instructor MTU 3033 NAMTRAGRU DET NA	**COMM:** (619) 545-1177 **DSN:** 735-1177 **FAX:** (619) 545-5592
AS1 Brian Brannon Instructor MTU 3033 NAMTRAGRU DET NA	**COMM:** (619) 545-1177 **DSN:** 735-1177 **FAX:** (619) 545-5592
LCDR Tonya Pringle PQS Development NETPMSA Pensacola, 034 lcdr_tonya.pringle@smpt.cnet.navy.mil	**COMM:** (850) 452-1518 **DSN:** 922-1518 **FAX:** (850) 452-1057
Mr. Phil Szczyglowski Competency Manager NAVAIRSYSCOM, 3.4.1.1 szczyglowspr@navair.navy.mil	**COMM:** (301) 757-9182 **DSN:** 757-9182 **FAX:** (301) 342-4723
AVCM Stephen Worthen NTSP Manager NAVAIRSYSCOM, 3.4.1.1 worthensw@navair.navy.mil	**COMM:** (301) 757-9185 **DSN:** 757-9185 **FAX:** (301) 342-4723
AMCS Greg Johnson NTSP Coordinator NAVAIRSYSCOM, 3.4.1.1 johnsongp@navair.navy.mil	**COMM:** (301) 757-9188 **DSN:** 757-9188 **FAX:** (301) 342-4723
AE1 Richard Axtell MPT Analyst (NTSP Author) NAVAIRSYSCOM, 3.4.1.1 axtellra@navair.navy.mil	**COMM:** (732) 757-9187 **DSN:** 757-9187 **FAX:** (301) 342-4723